



## Vincalis the Agitator

(deep version)

by Arya Akhavan (December 2012)

Angles for R.I. = 1.540

34 + 6 girdles = 40 facets

3-fold, mirror-image symmetry

96 index

$L/W = 1.152$   $T/W = 0.382$   $U/W = 0.356$

$P/W = 0.553$   $C/W = 0.174$

$Vol./W^3 = 0.266$

## PAVILION

P1	50.76°	01-31-33-63-65-95	Cut to centerpoint.
P2	49.27°	02-30-34-62-66-94	Meet at culet.
G1	90.00°	96-32-64	Set stone size.
G2	90.00°	16-48-80	Meet P1, G1
P3	70.12°	96-32-64	Set girdle level.
P4	70.12°	16-48-80	Level girdle.

## CROWN

C1	49.33°	96-32-64	Set girdle width.
C2	35.33°	16-48-80	Level girdle.
C3	23.41°	24-56-88	Meet G1, G2, C1, C2
C4	33.56°	30-62-94	Meet G1, G2, C1, C2, C3
C5	8.59°	18-50-82	Meet C1, C2, C3, C4
T	0.00°	Table	Meet C3, C4, C5

This design came about from my desire to inscribe triangles inside each other, rotating each consecutive one by between 15 and 45 degrees. I couldn't quite get enough triangles, though. This design somehow works in materials from fluorite (holy crap!) to rutile (RI = 1.43 - 2.62) with no changes. Wow. (I prefer it in zircon.)

Suggested size = 5-12 mm

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